



## FOLIANT TAURUS 530 NG

The FOLIANT Taurus 530 NG is a very compact and fast industrial laminating machine, constructed for nonstop work. It is equipped with a suction feeder, high-speed bump separator and many options like a Non-sticky Roller, Pallet Stacker or Foliant Foiler. Due to its format and performance, the machine is suitable for all jobs – all kinds of digitally printed sheets and high volumes of offset printed sheets size 19.7” x 27.8” for lamination. The machine’s maximum speed is up to 131 ft./min., while performance is 3,400 sheets per hour of 19.7” x 27.8 portrait (white paper 200 gsm).



### LAMINATOR

The FOLIANT Taurus 530 NG laminator’s maximum sheet size is 20.8” x 29.5”, extendable to 39.3” with an optional XL Module. The minimum sheet size is 12.6” x 9.8”. The FOLIANT Taurus 530 NG machine is a single-sided thermal industrial laminator, laminating 115 – 600 gsm paper. It has a unique “U” crossbar for perfect lamination of these sensitive sheets.

The laminating unit is equipped with an adjustable twin de-curl unit:

- With a de-curl blade for strong de-curling effect. The intensity is adjusted by the angle of the blade.
- With a de-curl roller for a weaker effect. The back of the printed sheet is protected during the de-curling because the paper is not rubbing against the roller. It is rotating together with it.

The roll of film is mounted on an air shaft that allows for very convenient, easy and precise film positioning. The shaft capacity is up to 9,842’ of the 24 - 42 microns film. The film holder unit is equipped with a trim splitter and a perforating wheel.

The laminating process is made between two laminating rollers - a highly polished chrome roller and a lower hard rubber pressure roller. The laminating roller is heated with a dry electric system inside the roller which consists of several rings mounted directly to the inner wall of the roller. This ensures that heat transfer is perfect even at maximum speed. A sensitive temperature is also inside the roller as close to the surface as possible. The warm up time is less than 10 minutes. The pressure is pneumatically adjustable, with an extra independent control knob for each roller edge.

The machine is fitted with OMRON Programmable Logic Controllers which controls all of the machine’s functions. The PLC system includes many automation items for easy control of the machine and reliable lamination. The whole machine is controlled by an interactive, easy-to-understand icon touchscreen panel – no language version is needed.

## FEEDER

The FOLIANT Taurus 530 NG is equipped with a rising back pile separation stream feeder and suction feed head. It is driven by an OMRON servo motor and controlled by a machine central PLC. The Becker vacuum pump is used for sheet separation. The overlaps are electronically controlled, in an “in-run” automatic mode, from the touchscreen. The accuracy is +/- 2 mm (0.08”) under-lap (in a constant speed). The feeder is fitted with a lifting plate and its capacity is 21.25” of paper.

## SEPARATOR

The integrated bump separator (sheeter) is equipped with a pair of fast cycling rollers. The process is controlled from the machine PLC unit. The separated sheets are delivered into a vibrating jogger (optional) or a pallet stacker (optional).

## LAMINATING FILMS

The machine laminates BOPP films (24 – 42 microns) and Nylon films (24 - 35 microns). PET films (20 - 25 microns) can be laminated with an optional module only.

## OPTIONS:

### JOGGER 530\*

The Jogger 530 is an adjustable vibrating reception unit for stacked laminated sheets. Its capacity is limited to 3.9” of paper.

### INTEGRATED MOTORIZED PALLET STACKER\*

Fully-automatic device that unloads laminated sheets into a high pile onto a pallet. Its capacity is 27.5” of paper.

### PET FILMS LAMINATION MODULE

The module is integrated inside the separator for the PET films (max. 25 microns) processing.

### NON-STICKY PRESSURE ROLLER

The standard rubber pressure roller is replaced by a roller with a non-sticky surface. Melted glue from the film cannot stick to it even under heavy pressure. Cleaning of this roller is not necessary at all. It allows for the laminating of sheets with windows.

### FOLIANT FOILER

Winding device that allows use of metalized film (gold, silver, red, etc.) and spot varnish film. The machine behaves as semi-automatic during foiling because there is no need for separation.

**\*Important** - the machine has to be operated either with a Jogger or a Pallet stacker



Optional Jogger



Optional Pallet Stacker



Optional Foliant Foiler

### XL MODULE

The longer feeding table extends maximum paper length up to 39.3”. Sheets with length over 29.5” cannot be unloaded into the Integrated pallet stacker.

### FILM LOADER/MANIPULATOR

The Film Loader/Manipulator is an electric lift with a film core adapter for loading heavy rolls of film (max. capacity 275.5 lbs). The device is not integrated with the machine. It is only connected with the machine’s electrical circuits.

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Max Speed	131' / min	Warm Up Time	8 min
Feeding	Automatic	Temperature Control	176° - 284°F
Feeding System	Suction Feeding Head	Power Supply	3 ph., 400 V AC, 50-60 Hz
Feeder Load Capacity	21.25"	Power	6550 W
Overlaps	Automatic, PLC Control	Floor Space with Jogger (W x L)	47.2" x 106.2"
Overlaps Accuracy	+ / - 2 mm (0.08")	Weight	1,312 lbs
Separation	Automatic Bump Rollers 115	Module for PET Films Processing	Optional
Paper Weight	- 600 gsm	XL Module (Sheets Up to 39.3")	Optional
Main Rollers Pressure	Pneumatic	Jogger 530	Optional
External Compressor	150 l / min, 6 - 8 bar	Integrated Motorized Pallet Stacker	Optional, 27.5" capacity
Min. Sheet Size (W x L)	12.6" x 9.84"	Foliant Foiler	Optional
Max. Sheet Size (W x L)	20.8" x 29.5"	Film Loader (Electric)	Optional
Max. Performance	3400 19.7" x 27.8" SPH	Non-sticky Pressure Roller	Optional
Film Micro Adjustable Air Shaft	Standard		

The information in this document is subject to change without notice.

